

**ABSTRACT**

A rotary vane compressor having features for reducing sound emitted  
5 from the compressor during operation. The sound reduction features include and  
relate to specific components of the compressor. Specifically the features relate  
to (1) the compressor motor; (2) a non-vented motor housing and back or closure;  
(3) the inlet ring ; (4) the bearing system; (5) the rotor and vane positioning and  
vane weight or mass; (6) the mass of the body within which the rotor and vane  
10 rotate; and (7) a shroud which surrounds the body which is solid and non-vented  
solid and may be formed of a laminated material having a sound dampening core  
layer.